

F/G. 1

FIG. 2

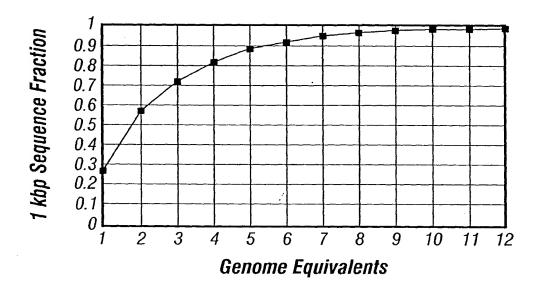


FIG. 3

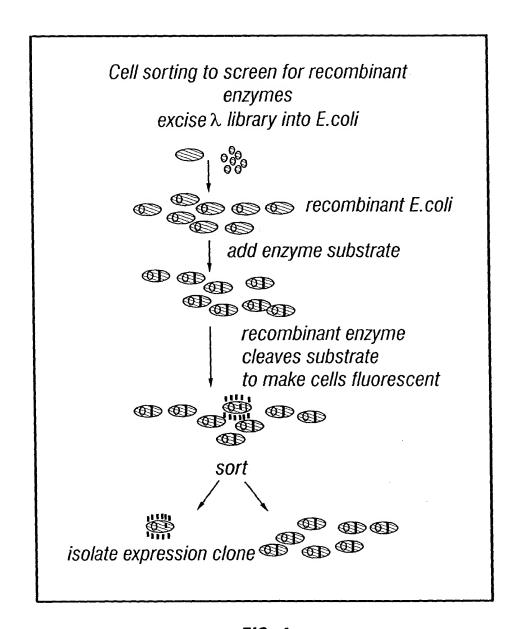


FIG. 4

β-Gal clone with different substrates

- cells were stained with FDG, CMFDG or C12FDG, incubated for 30 min. at 70°C, spotted onto a slide and exposed to UV light.
- bright spot indicates staining of cells



FDG

C12FDG

CMFDG

FIG. 5

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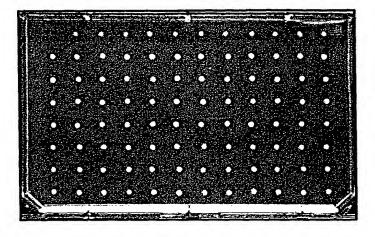


FIG. 6

$$R_1$$
 0 -Flour. $H_2\bar{0}$ R_1 0 -Flour -

FIG. 7

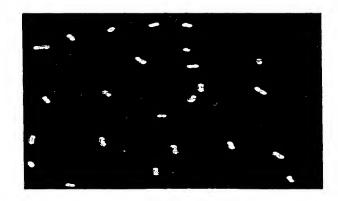


FIG. 8

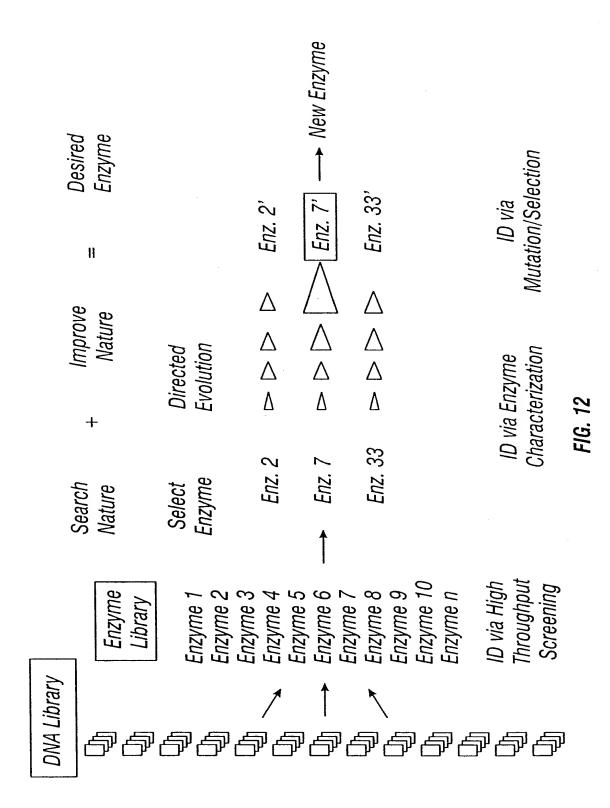
1

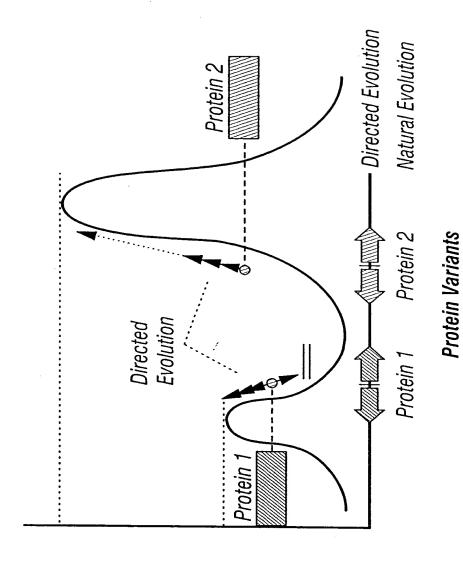
H₃C(H₂C)
$$\stackrel{O}{\sim}$$
 $\stackrel{O}{\sim}$ \stackrel

.16.9

$$H_2N \longrightarrow NH_2 + H_2 \longrightarrow H_$$

FIG. 11





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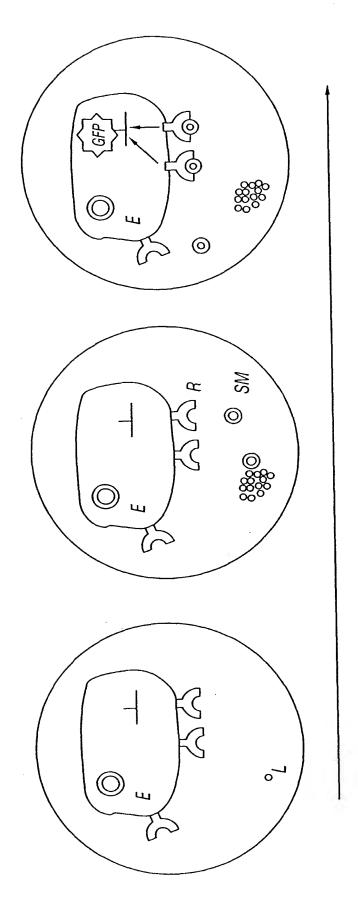
• Process Compatibility

Buffer Compatibility

• Expression Level

T Stability
• Solvent Stability
-

Relative Enzyme Activity



Co-encapsulation Library + Eukaryote

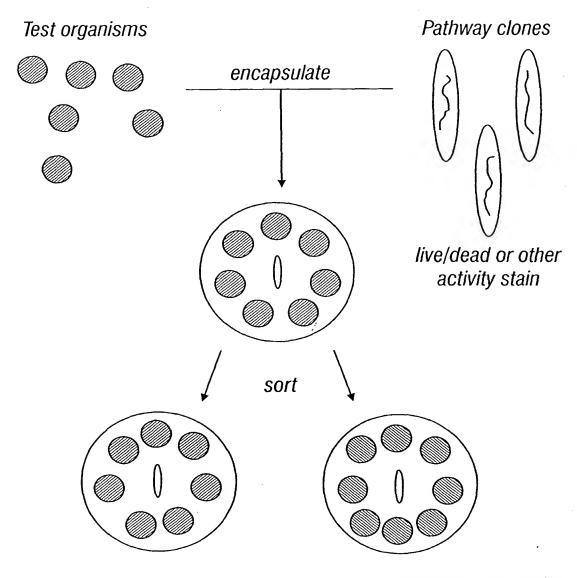
Growth and expression of small molecule from host

Receptor binding of small molecule & GFP reporting

E=Eukaryotic assay organism L=Large insert library GFP=Green fluorescent protein R=Eukaryotic receptor

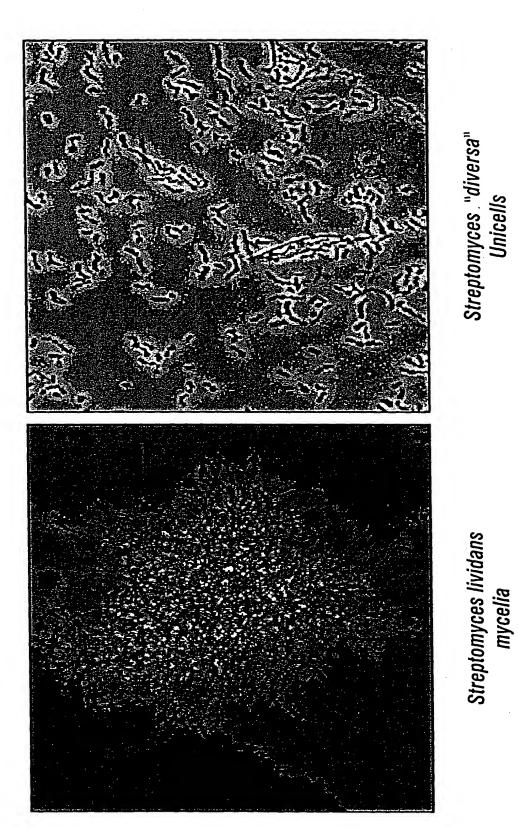
SM=Small molecule

FIG. 14

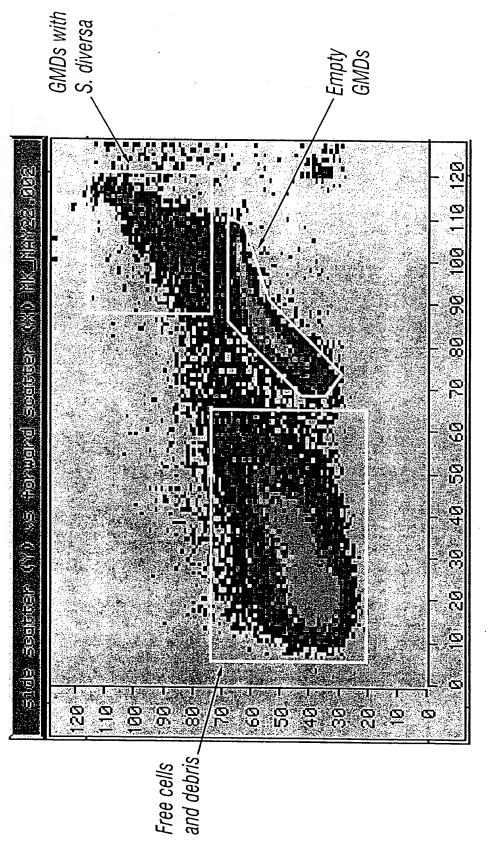


bioactive expression (e.g. live/dead, groth rate, metabolic stains etc.)

FIG. 15



Streptomyces "diversa" Unicells



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F1G. 1

